

PATENT ABSTRACTS OF JAPAN

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(54) SINGLE IONIC AND PROTON CONDUCTIVE HIGHPOLYMER SUBSTANCE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a conductive highpolymer substance having a high single ionic and/or proton conductivity which is stable over a wide temp. range and through a long period of service.

SOLUTION: This conductive highpolymer substance is formed from a polymer having sulfate radical or sulfuric acid radical in each molecule and a polymer given by the expression-(R1-X)-, where R1 is organic residual radical with C ranging from 1 to 20 or an organic residual radical with C ranging from 1 to 20 and including hetero atoms such as N, O, S, F, Cl, Br, I, etc., X is N, O, S, or organic residual radical including these atoms, and (n) is an integer no less than 2.

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